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ABSTRACT OF THE DISCLOSURE

**APPARATUS AND METHOD FOR PROGRAMMABLE CONTROL OF LASER
DIODE MODULATION AND OPERATING POINT**

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An apparatus and method for programmable control of laser diode modulation and operating point provides control for laser diodes having widely varying characteristics, such as laser diodes from a variety of manufacturers. Operating a wide variety of lasers is useful for implementation of a device independent integrated circuit for control of a laser diode. Laser diode maximum AC drive levels, AC input circuit response and DC operating point are programmed via a programmable storage coupled via control circuits to a drive amplifier and a bias circuit. The laser diode modulation control may be combined with laser diode bias control in a single integrated circuit, providing a single-chip solution for laser diode transceiver module manufacturers. The programmable storage may be one-time programmable for factory customization of laser diode transceiver module diodes, or may be an electrically alterable storage.

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